

CLAIMS:

1. Pneumatically or electrically operated disc brake,
having
 - a) a caliper (2) framing a brake disc (3),
 - b) an application device (5) arranged in the caliper on one side of the brake disc (3), particularly having a rotary lever (6),
 - c) at least one electrically driven adjusting device (10, 26) respectively on each side of the brake disc,
 - d) the at least one adjusting device (26) on the reaction side of the brake disc being driven by means of a transmission and/or synchronization gearing (25) which extends from one side of the brake disc (3) to the other,
characterized in that
 - e) the adjusting devices (10) are jointly driven on both sides of the brake disc (3) by a single electric motor or two electric motors (19, 35), in the latter case, the two electric motors (19, 35) being arranged relative to the brake disc plane on a joint side of the caliper,
 - f) the transmission and/or synchronization gearing (25) is arranged between at least one adjusting device on the side of the brake disc (3) opposite the application device and the at least

one electric motor (19, 35).

2. Disc brake according to Claim 1, characterized in that the at least one electric motor or the electric motors (19) for driving the adjusting devices is/are arranged outside the caliper.

3. Disc brake according to Claim 1 or 2, having two electric motors for driving the adjusting devices, characterized by a control device which is designed such that a separate controllability of the adjusting devices is permitted on both sides of the brake disc.

4. Disc brake according to one of Claims 1,2 or 3, characterized in that, on each side of the brake disc (3), two in each case mutually synchronized adjusting devices (10, 26) are arranged which each consist of a sleeve and a screw (12, 13).

5. Disc brake according to one of the preceding claims, characterized in that the transmission and/or synchronization gearing is designed as a bendable shaft (25).

6. Disc brake according to one of the preceding claims,

characterized in that the bendable shaft (25) is equipped with one or two worm drives (28, 29) for driving the adjusting devices (26) on the side of the brake disc (3) opposite the application device.

7. Disc brake according to one of the preceding claims, characterized in that the caliper (2) is designed as a fixed caliper and the brake disc (3) is axially movable by the amount of the working stroke of the brake.

8. Disc brake according to one of the preceding claims, characterized in that the caliper (2) is designed as a sliding or hinged or flexible caliper which can be moved by the amount of the working stroke.

9. Disc brake according to one of the preceding claims, characterized in that the eccentrically disposed rotary lever (6) is supported by way of spherical elements (8) on the interior of the caliper (2), and in that two additional spherical elements (9) are provided on the opposite side of the rotary lever, which spherical elements (9) each act upon one of the axially displaceably arranged adjusting devices (10).

10. Disc brake according to one of the preceding claims, characterized in that the synchromesh gear (15) for the synchronization of the application-side adjusting devices (10) is driven by a shaft (16) which penetrates the rotary lever (6) as well as the caliper (2).

11. Disc brake according to one of the preceding claims, characterized in that the electric motor (35) for driving the bendable shaft (25) is fastened to the caliper (2) by means of a separate attachment (36) or an attachment (36) molded thereto, and that the output shaft (37) of this electric motor is oriented parallel or inclined with respect to the brake disc axis.

12. Disc brake according to one of the preceding claims, characterized in that the bendable shaft (25) extends on the outside of the caliper or through the caliper interior or through a duct in the caliper interior.

13. Disc brake according to one of the preceding claims, characterized in that the bendable shaft (2) jointly synchronously drives the adjusting devices on the reaction side.

14. Disc brake according to one of the preceding claims,

characterized in that the bendable shaft (25) is arranged in a tube (30)).

15. Disc brake according to one of the preceding claims, characterized in that the tube (30) is arranged on the outside of the caliper (2).

16. Disc brake according to one of the preceding claims, characterized in that the tube (30) has a flexible design.

17. Disc brake according to one of the preceding claims, characterized in that the tube (30) and/or the bendable shaft (25) is/are provided with a friction- and wear-reducing intermediate layer.

18. Disc brake according to one of the preceding claims, characterized in that the intermediate layer is constructed as a sleeve made of a sliding material between the bendable shaft and the interior tube wall.

19. Disc brake according to one of the preceding claims, characterized in that the worm gears (28, 29) mesh with gear wheels on the adjusting devices or with an axially toothed disc

(34) .

20. Disc brake according to one of the preceding claims,
characterized by a manually operable restoring device.